KHRISTENKO, N.G.

On the distribution of Bithynia leachi Schepp, in the lakes of the Bol'shoye Lake group in Krasnoyarsk Territory [with English summary in insert]. Zool.shur.35 no.10°1583-1584 0 56.

1. Kafedra obschey biologii Krasnoyarskogo gosudarstvennogo meditsin-

(Chulys Valley-Snails) (Liver fluke)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722320019-5"

。 一种,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是

KHRISTENKO, N.V.

Effect of hypoxia on changes in the electroencephalogram. Trudy TSIU 66:269-272 '64.

Selection of the optimal respiration regime in an open thorax.

Ibid.:273-281 (MIRA 18:5)

KHRIST

Category: USSR/Nuclear Physics - Nuclear Engineering and Power

C-8

Abs Jour : Ref Zhur - Fizika, No 3, 1957, No 6106

: Alikhenov, A.I., Vledimirskiy, V.V., Petrov, P.A., Khri Author

Title heavy Water Power Reactor with Gas Cooling.

Orig Pub : Atom. energiya, 1956, No 1, 5-9

Abstract : Discussion of the advantages of heavy water nuclear reactors, which may turn out to be sufficiently economic for use in atomic electric stations. A reactor design is described, in which heavy water is used both as moderator and coolant. The factors affecting the thermal power of the reactor and the officioncy of the power portion, i.e., effecting in the final analysis the electric power of the atomic electric station, are considered. The authors reach the conclusion that the atomic electric station can be profitable if natural uranium is used, accompanied with deep burnup and maximum possible olectric power, with a cortain reduction in efficiency.

A neavy water power reactor with gas cooling is described. The use of gas in combination with heavy water moderator

Card : 1/2

。 1985年,中华中国的政治,全国的政治的政治的政治的政治,但是国际政治的政治的政治,但是国际政治的政治,是国际政治的政治,是国际政治的政治,但是国际政治的政治,是国际政治的政治的政治,但是国际政治的政治、企业,但是国际政治的政治、企业,

KHRISTENKO, P. I., PETROV, P. A., MITROPOLEVSKIY, V. A., SINELNIKOV, K. D., IVANOV, V. E. and ZELENSKIY, V. F.

"Pin Fuel-Element for Gas-Cooled Heavy-Water Power Reactor."

paper presented at 2nd UN Intl. Conf. on in the peaceful uses of Atomic Energy, Geneva, 1 - 13 Sep 58.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722320019-5"

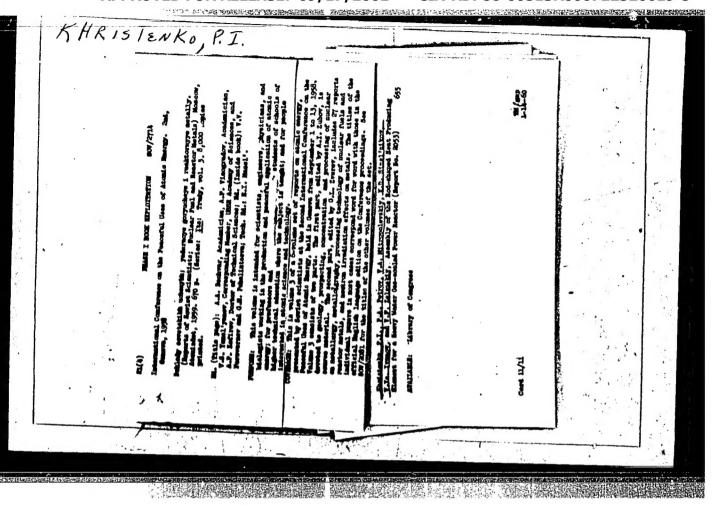
CHRISTENKO, P.I. [Khristenko, P.I.]; PETROV, P.A.; MITROPOLEVSKIJ, V.A. [Mtropolevskiy, V.A.]; SINELNIKOV, K.D. [Stnel'nikov, K.D.]; IVANOV, V.J. [Ivanov, V.Ye.]; ZELENSKIJ, V.F. [Zelenskiy, V.F.]; MAKVART, J. [translator]; KLIK, F. [translator]

Pin fuel-element for gas cooled heavy water power reactors.

Jaderna energie 4 no.11:330-338 N '58.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722320019-5"

21.1920

78520 \$0V/89-8-3-5/52

AUTHOR:

Khristenko, P. I.

TITLE:

Thermodynamic Possibilities of Turbine Operation Using Organic Liquid: Heated in Power Reactors

PERIODICAL:

Atomnaya energiya, 1960, Vol 8, Nr 3, pp 214-218 (USSR)

ABSTRACT:

Some organic heat carriers could be used to drive turbines using heat acquired directly from a nuclear reactor. One can avoid the use of water vapor because during expansion the saturated vapors of these organic substances become overheated, although their temperature decreases. Figure 2 shows the temperature-entropy TS diagrams of water, diphenyl oxide, and mercury. If diphenyl oxide is heated up to temperature T_1 and

enters a nozzle, it expands adiabatically to temperature T_2 , and the resulting jet consists then of overheated,

saturated, or weakly humid vapor which can be aimed directly on the blades of the turbine and later

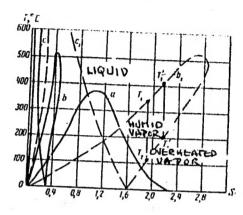
condensed in the condenser. Behavior similar to that

Card 1/5

Thermodynamic Possibilities of Turbine Operation Using Organic Liquids Heated in Power Reactors

Fig. 2. TS-diagram for water, diphenyl oxide, and mercury. (a) Water; (b) diphenyl oxide; (c) mercury (referred to 1 kg of saturated vapor); (b₁) diphenyl oxide; (c₁) mercury (referred to 6 kg of saturated vapor).

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of diphenyl oxide can be expected from kerosene, ethyl ether, dautherm, and probably N-hexane, acetic acid, and naphthalene. The author discusses the thermodynamic cycles in which directly heated liquids are used and discusses their efficiencies compared to that of a Carnot engine. If diphenyl oxide is used,

Card 2/5

Thermodynamic Possibilities of Turbine Operation Using Organic Liquids Heated in Power Reactors

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one has to keep in mind that at 15 atm and 440° C, 4-2% dissociates during 700 hr. Looking at the diagram on Fig. 2, one seen that the starting temperature of the liquid entering the turbine could be

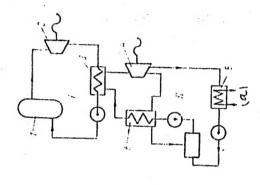
fixed at $500\text{-}100^\circ$ C, and the final could be $120\text{-}200^\circ$ C. This would correspond to beginning pressures of approx. 2.0-16.5 atm absolute, and final pressures of 0.015-0.15 atm abs. Since the final pressure of the liquid is comparatively high, the turbine could be used as a first stage, and the remaining heat energy could be used in a second water vapor stage, as shown on Fig. 5. Using in such binary cycle $t_1 = 350^\circ$ C, $t_2 = 200^\circ$ C, $t_3 = 350^\circ$ C, the thermal efficiency

t_p = 200° C, t_{cooler} = 350° C, the thermal efficiency is 0.43. Taking for the internal efficiency of the turbine 0.75, mechanical 0.96, electrical 0.97, and the coefficient of utilization of the theoretical cycle 0.9, such a device may have an overall efficiency of 27%. This is quite high, considering that the

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Thermogynamic Possibilities of Turbine Operation Using Organic Liquids Heated in Power Reactors

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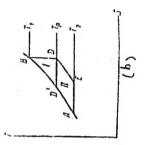


Fig. 5. Scheme (a) and TS-diagram (b) of the binary cycle: Stage I-heated diphenyl oxide; stage II-saturated water vapor; (1) reactor; (2,4) turbines; (3,5) condensers; (6) regenerative heater.

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Thermodynamic Possibilities of Turbine Operation Using Organic Liquids Heated in Power Reactors

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pressure of diphenyl oxide never exceeds 6 atm abs. The author further discusses the properties of dautherm and also the nozzle velocities of jets in the proposed turbine, and concludes that it would not be difficult to construct turbines from a few hundred to a few tens of thousands of kilowatts. The cost should not exceed that of conventional turbines. On the other hand, building the stage I generators working with water vapor at 30-40 atm abs of pressure. There are 5 figures; and 2 Soviet references.

SUBMITTED:

April 11, 1959

Card 5/5

21407 5/089/61/011/006/003/014 B102/B138

21.1000

AUTHOR:

· Khristenko P T

TITLE:

Ways of increasing the power output of a gas-cooled reactor

PERIODICAL: Atomnaya energiya, v. 11, no. 6, 1961, 506 - 514

TEXT: Three possibilities are discussed in detail and formulas are derived for calculating the thermodynamic cycle in each case. (1) Increasing the coolant flow rate by increasing its pressure in the loop. This method is most effective, since power output increases almost linearly with increasing coolant pressure until a certain (optimum) pressure is reached. If c_p = const and $c_p dT$ = TdS hold for the coolant gas, the thermal efficiency is given by $\eta_t = \frac{\ln(T_1/T_p)}{T_1}$, and the thermal power out-

put by $N_T = gc(t_2 - t_1)$, where g denotes the flow rate, c the heat. capacity, and $(t_2 - t_1)$ the preheating temperature of the coolant. For a reactor without end reflectors

 $t_2 - t_1 = A \left(\sqrt{\frac{A^2}{4} + 1} - \frac{A}{2} \right) [(t_n)_m - t_1] =$ $= \varphi(A) [(t_n)_m - t_1]; \quad (\varphi(A) \leqslant 1)$ (4)

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$$t_{2}-t_{1} = \frac{A\left(\sqrt{\frac{A^{3}}{4}\frac{1}{\sin^{3}(n)}+1}-\frac{A}{2}\right)}{\frac{A^{2}}{4}\left(\frac{1}{\sin^{2}(n)}-1\right)+1} \times \left[(t_{n})_{m}-t_{1}\right], \qquad (8)$$

$$\Delta t_{1} = \sqrt{\left[2(t_{n})_{m}-(t_{2}+t_{1})\right]^{2}-\frac{1}{\sin^{3}(n)}(t_{2}+t_{1})^{2}}.$$

with $A=(t_2-t_1)/\Delta t_{ij}=H\alpha\eta_h/gc$. Fig. 1 shows the optimum TS diagram; T_1 is the temperature of the gas heated in the reactor (point B), T_p the same at point C. (2) Increasing the pressure by additional cooling before the gas blower. This method brings about a 50% decrease in power consumption for circulation. Calculations for a special case give an increase of 9.0% in efficiency due to additional cooling. For a special case (A = 2.4, γ (A) = 0.869) where additional cooling causes a reduction from $t_2-t_1=3340$ C ($t_2=449$ °C) to $t_2-t_1=365$ °C ($t_2=445$ °C), the

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Ways of increasing the ...

efficiency of the unit can be raised by a factor of 1.32. If the gas is then fed back to the reactor core (Fig. 4) the increase in efficiency reaches 6 - 7% and the electric current costs are reduced by 15 - 25%. (3) Profiling the coolant flow. This method is based on a special design for the cooling system; its dimensions should be such that the thermal energy transferred to the coolant are distributed over the coolant circuit as uniformly as possible. This thermal balancing can be achieved in two different ways: Either the coolant flow rate W varies and Ap = const, or W = const. The first must be used for gas-cooled reactors. The coolant cross section depends on the thermal power ratio μ_1/μ_0 of two fuel rods or two reactor channels. $\mu_1/\mu_0 = \frac{g_1}{g_0} \frac{(t_2 - t_1)}{[(t_2)_0 - (t_1)_0]}$

is calculated for variable W:

 $\left(\frac{\mu_{1}}{\mu_{0}}\right) = \left(\frac{1-\epsilon_{0}}{\epsilon_{0}} \cdot \frac{\epsilon_{1}}{1-\epsilon_{1}}\right)^{\frac{2(3m-n)+1}{2-n}} \times \frac{\left(\sqrt{1+\frac{4}{A_{1}^{2}}}-1\right)}{\left(\sqrt{1+\frac{4}{A_{0}^{2}}}-1\right)}.$ (14)

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Ways of increasing the ...

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and for W = const:

$$\begin{pmatrix}
\frac{\mu'}{\mu_0}
\end{pmatrix} = \begin{pmatrix}
\frac{1-\epsilon_0}{\epsilon_0} & \frac{\epsilon_1}{1-\epsilon_1}
\end{pmatrix}^{1\cdot 1m} \times \\
\times \frac{\left(\sqrt{1+\frac{4}{\Lambda_0^{\frac{1}{2}}}-1}\right)}{\left(\sqrt{1+\frac{4}{\Lambda_0^{\frac{1}{2}}}-1}\right)}, \\
\Lambda_1 = \Lambda_0 \left(\frac{1-\epsilon_0}{\epsilon_0} & \frac{\epsilon_1}{1-\epsilon_1}\right)^{1\cdot m'}.$$
(15)

£ is the part of the fuel assembly area occupied by the rods. m is the factor of power consumption decrease due to additional cooling. There are 6 figures and 1 Soviet reference.

SUBMITTED FORWARY 18, 1961

CAKD 4/04

L 16475-66 EWT(m)/ETC(f)/EPF(n)-2/EWG(m) WW/DM ACC NR: AP6005527 (N) SOURCE CODE

SOURCE CODE: UR/0089/66/020/001/0026/0029

AUTHOR: Khristenko, P. I.

39

ORG: none

R

TITLE: Plutonium reprocessing in heavy-water-moderated power reactors

SOURCE: Atomnaya energiya, v. 20, no. 1, 1966, 26-29

TOPIC TAGS: thermal reactor, nuclear power reactor, water moderated reactor, plutonium, reactor fuel processing, isotope, uranium

ABSTRACT: The author considers operation of a thermal power reactor with continuous $\underline{fuel^4}$ recharging in stationary conditions for the case of steady-state equilibrium (or near-equilibrium) concentration of Pu^{239} , Pu^{240} and Pu^{241} and constant sustained concentration of U^{235} and fission fragments in U^{238} . In order to maintain these operating conditions, it is necessary to use fresh fuel to replace that portion in which the fragment concentration surpasses the permissible value. The fragments are removed from a portion of the unloaded fuel which is then recycled. The plutonium is extracted from the remaining (smaller) portion of the fuel which is

UDC: 621.039.543.6

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then discarded as depleted and replaced with natural uranium. Formulas are derived for calculating uranium depletion in thermal power reactors. Orig. art. has: 1 figure, 10 formulas.

SUB CODE: 18/ SUBM DATE: 25Aug64/ ORIG REF: 002/ OTH REF: 000

Card 2/2 mc

YEPIFANTSEV, Yu.K., kand. tekhn. nauk; KHRISTENKO, P.N., inzh.

Expediency of reducing the number of simultaneously active faces in development workings of Donets Basin mines. Sbor. DonUGI no.29:114-123 '63. (MIRA 16:10)

(Donets Basin-Coal mines and mining-Labor productivity)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722320019-5"

KHRISTENKO, P.N., inzh.

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Study of the distribution of stresses around drifts made in thin pitching coal seams under conditions found in the Donets Basin. Sbor.DonUGI no.26:135-173 *62. (MIRA 16:6) (Donets Basin-Mining engineering) (Strains and stresses)

KHRISTENKO, P.S.

Results of treatment with Shcherbintsy mineral water. Vrach.delo no.8:859 Ag *58 (MIRA 11:8)

1. Kafedra fakul'tetskoy terapii (mav. - prof. N.B. Shchupak) Chernovitskogo meditsinskogo instituta i oblastnaya klinicheskaya bol'nitsa.

(SHCHERBINTSY-MINERAL WATERS, SULFUROUS)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722320019-5"

SOKOLOVSKIY, Yuriy Iosifovich, dotsent; SHILOV, Vasiliy Ivanovich, insh.; KHRISTENKO, V.I., kand.tekhn.nsuk, otv.red.; NESTERENKO, A.S., red.; TROFINENKO, A.S., tekhred.

[Photon spaceship; possibilities and difficulties of a flight beyond the solar system] Fotonnyi svezdolet; o vozmozhnostiski i trudnostiski poleta za predely Solmechnoi sistemy. Khar'kov. Izd-vo Khar'kovskogo gos.univ., im. A.M.Gor'kogo, 1960. 45 p.

(MIRA 13:6)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722320019-5"

KHRISTENKO, V.P., red.

[The construction of thermal electric power plants is a principal trend in the development of power engineering] Stroitel'stvo teplovykh elektrostantsii - glavnoe napravlenie razvitiia energetikia. Moskva, Orgenergostroi, 1964. 63 p. (MIRA 17:9)

l. Vsesoyuznyy institut po proyektirovaniyu organizatsii energeticheskogo stroitelistva "Orgenergostroy.". Mo-skovskiy filial.

。 4. 全型的电影的经验的最高,但如此是他们的是一个人,我们就是是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人

BROWER, D.L.; ROZANTSEV, S.N.; KHRISTENKO, V.P.; VOLKOV, S.V., tekhn.red.

[Housing management; reference manual for workers in housing management and in offices administering apartment houses]
Upravlenie shilishchnym khosiaistvom; spravochnoe posobie dlia rabotnikov domoupravlenii i shilishchno-ekspluatatsionnykh kontor. Isd.2., perer. Noskva, Isd-vo M-va kommun.khos. RSFSR. 1959. 302 p. (MIRA 12:5)

(Housing management)
(Dwellings-Maintenance and repair)

NOSOV, R.P., glav. red.; POLONSKIY, G.A., red.; USTINOV, A.D., red.; FRENKEL', G.Ya., red.; RUBINOV, A.B., red.; KHRISTENKO, V.P., red.; BORUNOV, N.I., tekhn. red.

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[Protection of metal structures and mechanical equipment against corrosion in hydraulic engineering; from materials of a conference held by the "Gidromontazh" Trust of the Ministry of Electric Plant Construction of the U.S.S.R. on 24-26 June. 1960]Zashchita metallokonstruktsii i mekhanicheskogo oborudovania gidrotekhnicheskikh sooruzhenii ot korrozii; po materialam soveshchaniia, provedennogo trestom "Gidromontazh" Ministerstva stroitel'stva elektrostantsii SSSR 24-26 iiunia 1960 g. Moskva, Gosenergoizdat, 1961. 55 p.

(Hydraulic structures—Corrosion) (Protective coatings)

ACC NR: AP7002555 (A,N) SOURCE CODE: UR/0413/66/000/023/0036/0035

INVENTOR: Mende, F.F.; Dmitriyev, V.M.; Khristenko, Ye.V.; Borodavko, Yu.M.

ORG: none

TITLE: Method of obtaining stable frequency from a nonstable uhf oscillator. Class 21, No. 189029 [announced by Physico-technical Institute of Low Temperatures, AN UkrSSR (Fisiko-tekhnicheskiy institut nizkikh temperatur AN UkrSSR)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 23, 1966, 36

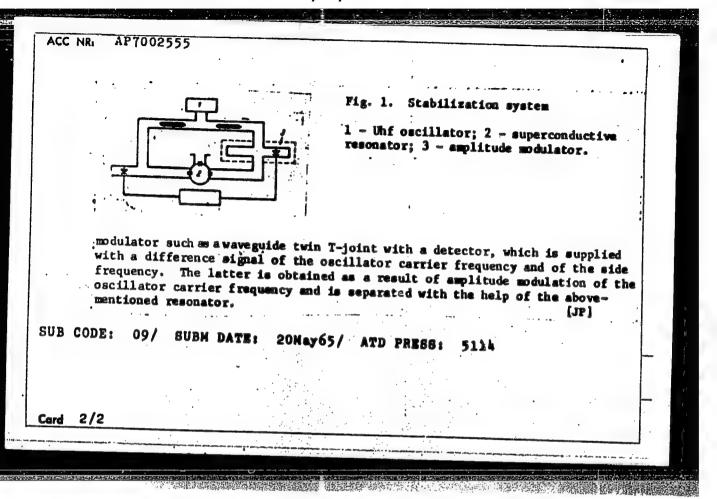
TOPIC TAGS: uhf oscillator, frequency stability, Ampatrone modulation

ABSTRACT:

To simplify the stabilization system used to obtain a highly stable frequency from a nonstable uhf oscillator which utilizes a superconductive resonator, it is proposed that the oscillator signal be amplified by an amplitude

Card 1/2

UDC: 621.373



KHRISTESASHVILL, G.

Card 1/2

COMMUNICATIONS FACILITIES IN GEORGIAN SSR

COMMUNICATIONS FACILITIES IN GEORGIAN SER -- Thillei, Zarya Vostoka, 26

Speaking at a meeting of republic communications workers, G. Khristesachvili, Minister of Communications Gergian 73R, noted that the Pajor-1476. 1996 work indexes exceeded the plan by a considerable margin. In particular, the capital construction plan by the clan for retail distribution of newspapers and magazines were exceeded the clan for retail distribution of newspapers and magazines were exceeded the clan for retail distribution of newspapers and magazines were exceeded to be a fulfilled. A developing the network of communications enterprises was fulfilled. A television center was put into operation and the capacity of interurban includes and telegraph circuits was increased by installing multichannel high-frequency apparatus.

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	card 2/2	COMMUNICATIONS FACILITIES IN GEORGIAN SSR	1 1 1 1 h
*	hezzled 1 fice. Pe huloyski three tim trying to her of in	constant after serious shortcomings in the work of communications of the postal matter was stolen on four occasions, while 44,000 rubles were entered in nine branch communications offices of the Thillis Main Fost Orbudoyskiy, Shuakhevskiy, Dzbavskiy, and other rayons are at work only trying to climate delay in telegrap transmission and implies. The number of interurban telephone calls involving a wait of over an hour and the number of uncompleted calls have increased sharply.	
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KHRISTES ASHVILL, G.A.

Using passenger buses to transport mail. Vest.sviasi 17 no.10:41 0 157. (MIRA 10:11)

1. Ministr svyasi Grusinskoy SSR.
(Georgia--Postal service)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722320019-5"

111-58-6-9/25

AUTHOR:

Khristesashvili, G.A., Minister of Communications of the

Georgian SSR

TITLE:

The Development of Multiprogram Broadcasting in Georgia

(Razvitiye mnogoprogrammnogo veshchaniya v Gruzii)

PERIODICAL:

Vestnik Svyazi, ANr 6, 1958, pp 15-16 (USSR)

ABSTRACT:

Since 1953, the power of radio facilities in Georgia has increased by more than 6 times. New transmitters put into operation have permitted the organizing of multiprogram broadcasting in aboriginal languages. The new items are listed as follows: . the TV-center built in Tbilisi on the David mountain with an antenna-tower of 180 m, the total height over the town being of 500 m; two v.h.f. FM transmitters duplicating the first and the second broadcasting programs put into operation in January 1958; a mobile TVstation of "PTS-52" type; a TV relay station with an active range of 25 to 30 km put into operation in Gori. Engineers and technicians of the Georgian SSR radio center, Salibekashvili, Zayonchik, Kordzakhiya, T. Tkhor, B. Tkhor, Udzhmadzhuridze, Azatyan, Khachaturyan, Teymurov, etc, participated in the assembling and adjusting of the above stations.

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The Development of Multiprogram Broadcasting in Georgia

This year, five more relay stations will be installed in towns and rayon centers at a distance of 100 km and more from the Tbilisi TV-center. Besides this, a broadcasting transmitter of "RV-7" type was rebuilt and the new transmitter with anode modulation twice as powerful as the old ones was put into operation in January 1958. Akhvlediani, Ivanov, Muradova, Dzhachvadze, Chikhladze, Babadzhanov, D'yakonova, Gamkrelidze, Khavtasi, Prishchepa, V. Babayan, etc., contributed much to the rebuilding of this transmitter, which allows the transmission of regional programs in the Russian, Georgian, Armenian and Azerbaydzhan languages. In November 1957, a broadcasting transmitter was put into operation in Sukhumi, the programs being broadcasted in the Abkhazian language. The Presidium verkhovnogo soveta Abkhazskoy ASSR (The Presidium of the Supreme Soviet of the Abkhazian ASSR) rewarded the following radio workers of this radio center with the certificate of honour for their participation in designing and installing this transmitter: Agababov, Amiranashvili, Manusadzhan, Topuzis, Gelovani, Tushishvili, Yatsenko, Drozdov T.I. and Drozdov T.M. Two more radio stations will be built and will assure regional

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111-58-6-9/25

The Development of Multiprogram Broadcasting in Georgia

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broadcasting in the Adzharian ASSR and in the South Ossetic autonomous oblast'. In this way, 5 programs in 5 languages can actually be transmitted in Georgia, and next year, 7 programs will be transmitted in 6 languages. This article contains 3 photos.

ASSOCIATION: Ministerstvo svyazi Gruzinskoy SSR (Ministry of Communications of the Georgian SSR)

Communications - USSR 2. Radios - Applications

Radio transmitters - Characteristics

Card 3/3

Development of communication means in Georgia. Vest. sviazi 21 no.11:6-7 N '61. (MIRA 14:11) 1. Ministr svyazi Gruzinskoy SSR. (Georgia—Telecommunication)

L 47302-65

ACCESSION NR: AT5007879

\$/0000/64/000/000/0079/0088

AUTHOR: Hanukyan, Yu. A.; Chkheidze, M. V.; Khristesashvili, V. G.; Hachavariani, G. A.

TITLE: A method for constructing a Gray code counter

SOURCE: AN GruzSSR. Institut kibernetiki. Elementy kiberneticheskikh sistem (Elements of cybernetic systems). Tiflis, Izd-vo Metsniyereba, 1964, 79-88

TOPIC TAGS: Gray code, computer component, flip flop circuit, counter circuit

ABSTRACT: The article discusses a method for the construction of a Gray code counter in which the parity check flip-flop is controlled not by input pulses, but by signals fed back from the main counter register. In order to minimize errors due to ambiguous readings without stopping during read-out, Gray code counters are widely used. The counting input of each flip-flop in a counter register is connected to a coincidence circuit, one input of which is connected to the output of the preceding flip-flop. The second coincidence circuit input is connected to a delay line and the third is connected to the output of a so called forbidden-combination flip-flop. The purpose of this flip-flop is to prevent the further opera-

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L 47302-65

ACCESSION NR: AT5007879

tion of flip-flops after the addition of a one to any even or odd number, which is already present in the counter register. In all present Gray code counters the input counting pulses act directly on input of the parity flip-flop. Therefore, a chance error in any of the digital places will necessarily lead to a false reversal which results in a rapidly increasing and completely inadmissible error. The circuit considered in this article is distinguished by the fact that the counting pulses do not act on the parity flip-flop but go directly into one of the digital places of the counter register. The position of the parity flip-flop is changed by a signal, which indicates that switching has already taken place in the desired digital place. An error in any of the digits leads only to the loss of the pulse. The following pulse again acts on the digit in which the error occurred. However, this counter is no more reliable with respect to the parity check place than are other circuits, since there is still the possibility of a false reversal due to errors in the parity flip-flop. It should be noted that in these circuits it is possible to check the errors in the register made during counting so that this information may be used in analyzing the results. For this purpose it is only

Card 2/3

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ecessary to introduce he input of the count espectively.	er and to th	ie output o	f the genera	d to conn il registe	ect its in r assembly	iputs to	
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MANUKYAN, Yu.S.; CHKHEIDZE, M.V.; KHRISTESASHVILI, V.G.; MACHAVARIANI, G.A.

Construction of Gray code counters. Soob. AN Gruz. SSR 31 no. 3:655-660 S '63. (MIRA 17:7)

l. Institut kibernetiki AN GruzSSR, Tbilisi. Predstavleno chlenom-korrespondentom AN GruzSSR N.V.Gabashvili.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722320019-5"

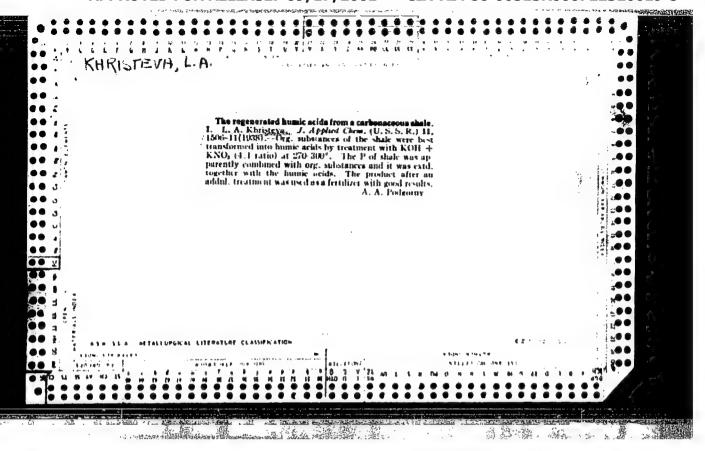
L h20h0-65 EWT(1)/EWA(h) Peb GG	
ACCESSION NR: AP5010951	VR/0286/65/000/007/0132/0132
	V.; Khristescahvili, V. G.; Hachevariani,
TITLE: Reversible counter in Grey code.	
SOURCE: Byulleten' izobreteniy i tovarny TOPIC TAGS: counter circuit	KR ZBEKOV, RO. (, 190), 196
spurious reversal with isolated misalignme contains a control circuit based on a semi delay line, and two coincidence circuits of the first coincidence circuit controll the unit output of the parity trigger, and to the first input of the other coincidence circuit is connected to the a	dents of any of the counter triggers, it disummator, two double input collectors, a (see Fig. 1 on the Enclosure). One input ing the first digit trigger is connected to do the second input to the counter input and dice circuit. The second input of the second sero output of the parity trigger, and its dining counter digits. The trigger outputs to a common collector whose output is
2	

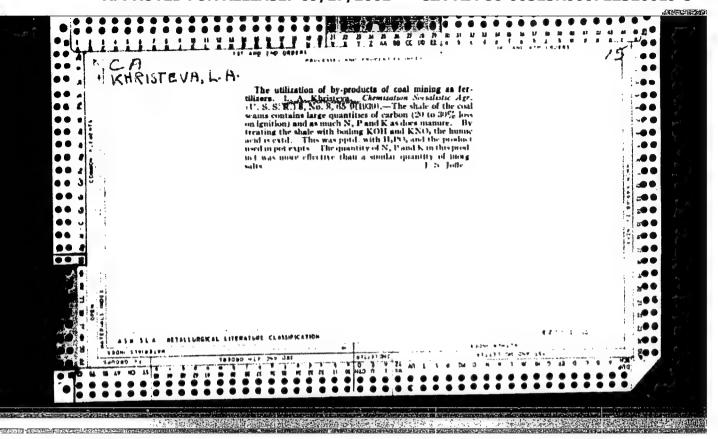
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ACCESSION NR: AP5010951		0	
to the semisummator input collector. The second is collector to both branch	one double input collector is connect whose output is connected to the nput of the semisummator is connect as of the parity trigger. The revethe parity trigger through a collect	second input of the same ted through the other was signals are admitted	-
ASSOCIATION: none			
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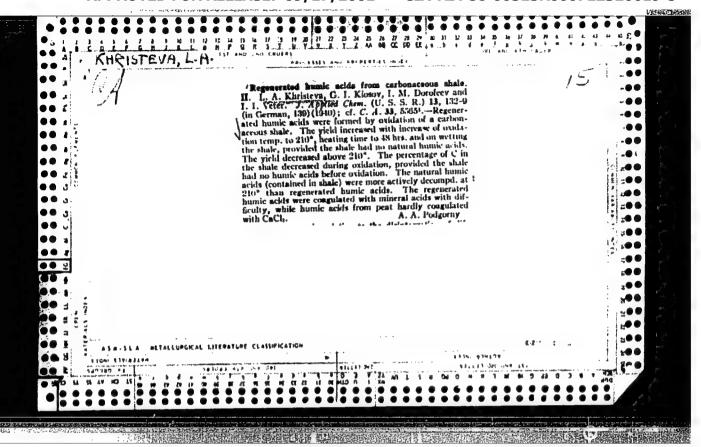
DISHLIEV, B.; SHOPOV, N.; KHRISTEV, P.

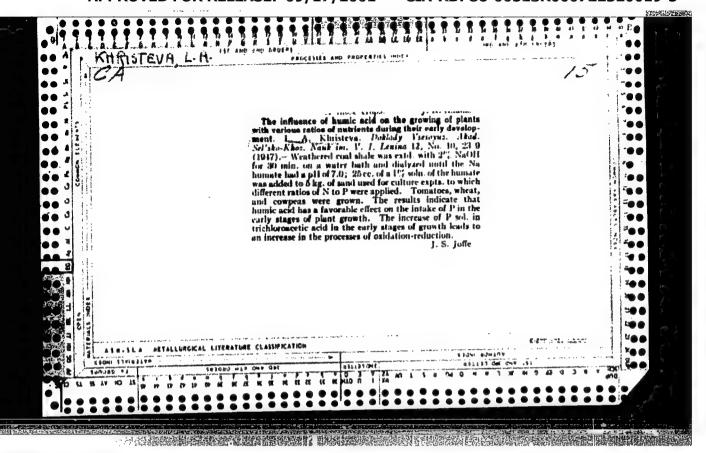
Clinical aspects, diagnosis and therapy of perforating gastric and duodenal ulcers according to clinical material of 1948-56 inclusively. Khirurgiia, Sofia 11 no.2:150-158 1958.

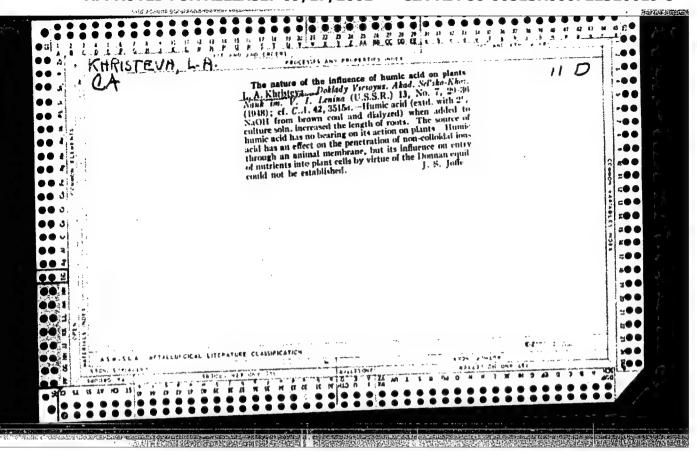
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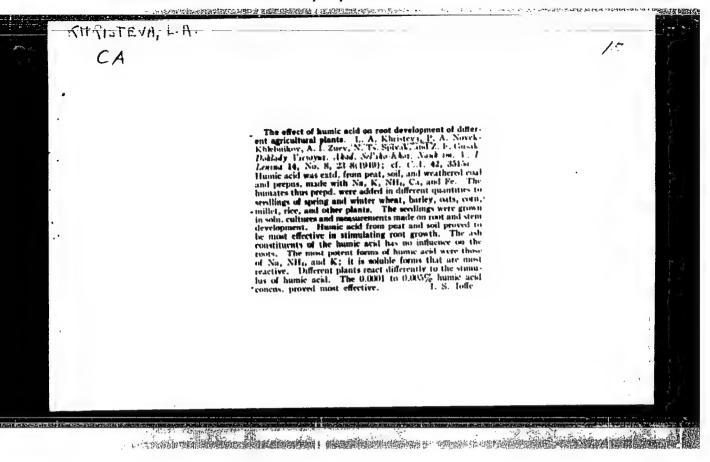












KHRISTEVA, L. A.

Dissertation: "Humic Acids of Carbonaceous Shales as a New Type of Fertilizers." 8/3/50

Soil Inst imeni V. V. Dokuchayev, Acad Sci USSR

SO Vecheryaya Mcskva
Sum 71

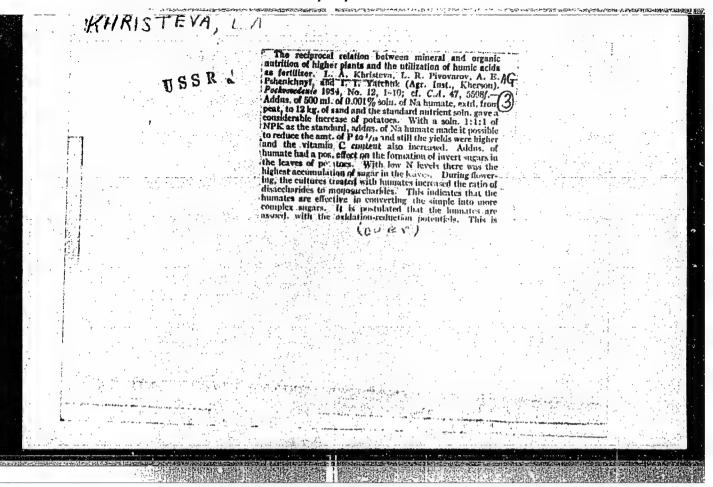
KHRIJTEVA, L. A.

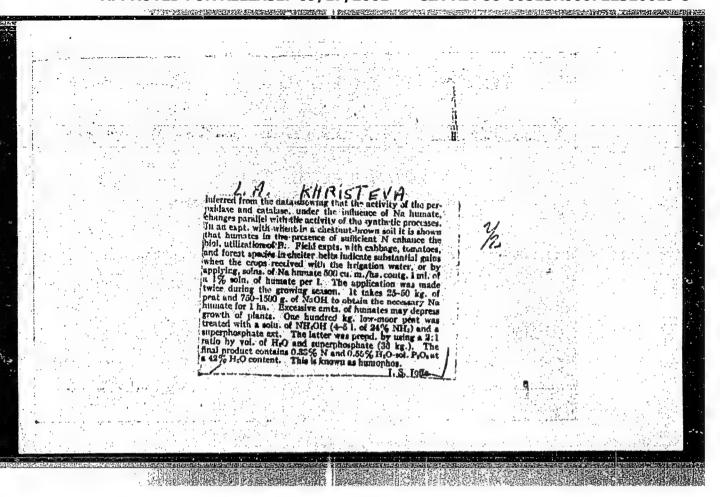
Plants-Nutrition

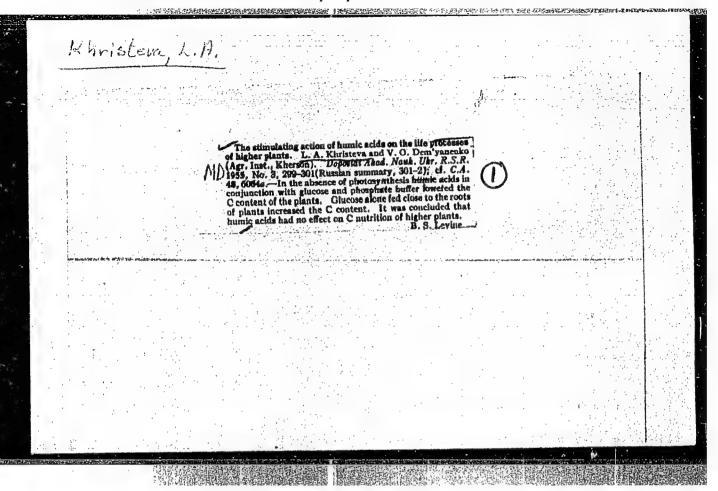
Role of humic acid in plant nourishment and humic fertilizers. Trudy Poch. inst.. no. 33, 1951.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

Christer	~,L,A			
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•			Humic soid and other organic substances in the nutrition of higher plants. L. A. Khristeva (first. Agr., Kherson) Pockpovedenie 1953, No. 10, 40-59.—A review of the effect	8
. Chem	ical Abstracts 25, 1954		Pot typocdenic 1953, No. 10, 40-98.—A review of the factors of org. substances, such as humic acid (dialyzed from Na of K humates), vitamins, and solubilized bitumens, shows that in small quantities they exert a favorable effect on plants in small contributes they become toxic. These results are	t t
Soil	25, 1954 and Fertiliz	ers	in small quantities they exert a favorable effect on plants in large quantities they become toxic. These results ar based primarily on seedlings in soln, cultures. 25 refer plants of the seedlings in soln, cultures of S. Joffe	
•	, , ·		based primarily on seedings in some cutting. J. S. Joffe eners.	
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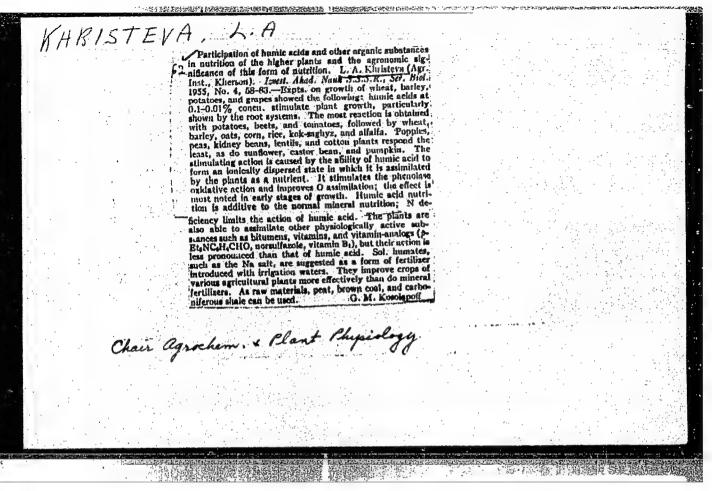






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CIA-RDP86-00513R000722320019-5



J-4

USSR/Soil Science. Organic Fertilizers

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 43856

Author

: Khristeva Lala

Inst

Not Given

Title

: The Utilization of Humas Fertilizers

Orig Pub : Kolgospnik Ukraini, 1956, No 7, 26-27 (Ukrainian)

Abstract : A try-out of humas fertilizers was begun in 1953 by scientific research institutions, kolkhozes and forest preserves in Khersonskaya Oblast!. The average torato yield boost was 55 centners per ha. when the control output was 118 and 100-104 centners per ha, when the yield in the control was 200-400 centners per ha. This yield boost was obtained on chestnut soils when 7-10 to per has. of litter were placed in the holes and on sand soils with the application of 10 t. per ha. of peat in a mixture with 1.5 centners per ha. of mineral fertilizers. The addition to the young cabbage crop through the application of humophos totaled 69-120 centners per ha. and to the late cabbage crop 170 centners per ha.

Card

: 1/2

ÄPPROVED FOR RELEASE F-09/17/2001 CIA-RDP86-00513R000722320019-5

Abs Jour : Ref Zhur - Biol., No 20, 1958, No 91477

: Khristeva L.A., Yarchuk I.I., Kuz'ko M.A.

Inst

: Kharkov Univ.

Title

: Physiological Principles in the Technology of Hanus Fer-

tillizers.

Orig Pub : V sb.: Guminovyye udobreniya. Khar'kov, Khar'kovsk. un-t.

1957, 163-184

Abstract : No abstract

Card

: 1/1

MANDIOLOG NO 00 TANA MO SHOOF ADS JOUR

Author Inst

Khristeva. L. A.

Khar kov University.

K

COUNTRY

USCR

CATEGORY

. Forenery . FOREST CULTURES.

ABS. JOUR. ' Ref Chur-Biologiya, No.1, 1959, No. 1483

KOHTUA

: Thristeva, L.A.; Ponomarento, V.A.; Kotlyuba, V.G.

INST. TITE

. Kharkov Univ.

Effect of Humic Fertilizers on the Growth of Sine, the Chief Afforestation Culture of the Lower Dnieper Sands.

ARCHRAGE

ORIG. RUE. 3 y sb.: Guninovye udobraniya. Ther kev Khar hovek. un-t, 1957, 313-330 Khar hovek. un-t, 1957, 313-330 By experiments at the Golopristanskiy Leskhoz(1953), it was established that humic fertilizers raise the vitality and droughtresistance of pine in the lower Dnieper sands. It is recommended that in curseries humophoa and watering with a 0.001 % solution of sodium humate be applied in combination with

supplementary mineral fertilizers. It is expedient to activate planting muterial of a different district by wetting the root system

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28

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722320019

I.

Khristeva, L.A.

USSR/Plant Physiology - General Problems.

: Ref Zhur - Biol:, No 18, 1958, 81970 Abs Jour

Khristeva, L.A. Author

Kherson Agricultural Institute. Inst

: Physiological Function of Humic Acid in the Nutrition of Title

Higher Plants

: Nauchn. zap. Khersonsk. s.-kh. in-t, 1957, vyp. 6, 47-60 Orig Pub

The stimulating action of various polyphenols (I) and of Abstract

their derivatives-hydroquinone, guaiacol and tannin was compared with the action of sodium hunafe (II) in experiments with summer wheat. All substances were used in concentration of 0.0001%. I, particularly tannin and guaiacol, stimulated the growth of plants but to a lesser degree than II. II greatly increased the absorp-

tion of 02 by plant tissues (the determination was

Card 1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722320019-5

: Ref Zhur - Biologiya, No 11, 1958, No. 48666 Abs Jour

: Khristeva, L. A.; Yarchuk, I. I.; Kotlyuba, Author

V. G. : Kherson Agricultural Institute

: Agricultural Principles in the Technology of Inst Title Humus Fertilization

: Nauchn. zap. Khersonsk. s.-kh. in-t, 1957, Orig Pub vyp. 6, 83-102

: In a large number of experiments conducted during the course of several years, the dose Abstract significance of humic acids and humus fertilizers on crop harvests was investigated; also studied were problems connected with the manufacture and application of soluble humates and organic-mineral humus as fertilizers. Of all

Card 1/3

CIA-RDP86-00513R000722320019-5

USSR/Forestry - Forest Plants.

K-5

Abs Jour

: Ref Zhur - Biol., No 2, 1958, 5908

Author

: Khritsteva, L.A., Ponomarenko, V.G., Rumyantseva, V.M., Kotlyuba, V.G.

Inst

: Kherson Agricultural Institute

Title

The Influence of Humic Acid on the Growth of Pines in Nurseries and Tree Plantations Set out in the Autumn on the Lower Dneyr Sends.

Orig Pub : Nauchn. zap. Khersonsk. s.-kh. in-t, 1957, No 6, 125-133

Abstract

: In order to explain the effect of humic acid on the quality of planted material, experiments were conducted in 1953 in the Golopristanskiy Forest Economy, Khersonskaya oblast', in the nutrition of common panes which had not attained full growth. Sodium humate in a 0.001% concentration was used as a humic fertilizer. It was applied by

Card 1/3

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722320019

KIRISTEVA, L. A.

"Die Rolle Der HuminsHuren Und Einiger Vitamine Bei Der PflanzenernHhrung". report submitted for the 7th Congress of International Society of Soil Science Madison, Wisconsin, 15-23 Aug 60.

KHRISTEVA, L.A.

Physiological role of humic acids and some vitamins in the life of higher plants. Trudy Inst. mikrobiol. no.11:34-40 '61.

(MIRA 16:11)

1. Inepropetrovskiy sel*skokhozyaystvennyy institut.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722320019-5"

KHRISTEVA, L. [Khrystieva, L.], doktor sel'skokhoz.nauk, prof.

Is it dead capital? No: Nauka i shyttia 12 no.10:25-26 0
(62. (Wkraine—Fertilizers and manures) (Peat)

KHRISTEVA, L.A.: LUK'YANENKO, N.V.

TO THE STATE OF TH

Role of physiologically active substances of soils, humic acids, bitumens, and vitamins B2, C, P-P, A, and D in the life of plants and ways for replenishing them. Pothwovedenie no.10:33-37 0 (MIRA 15:11)

1. Dnepropetrovskiy sel'skokhosyaystvennyy institut.
(Soil chemistry) (Plant physiology)

L. A. Khristeva (USSR)

"Theory and practice of application of humic fertilizers in the Ukraine"

Report submitted for the 2nd International Peat Congress, Leningrad, 15-22 Aug 63.

VELEV, Dimitur, k. t. n., inzh.; BUKHCHEV, Georgi; KHRISTEVA, Mariia, inzh.

Characteristics of mazut, and their influence on the flame during combustion. Tekhnika Bulg 13 no. 2: 19-20 164.

1. "Druzhba" Glass Factory.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722320019-5"

本,中华美国中国共享的内容的新疆的英语的大学的大学的中国的大学的大学的大学的大学的大学的大学的大学的一种,可以为自己的大学的大学的大学的大学的大学的大学的大学的

BECAGOYEN, I.A., kand. tekhn. nauk; KHRISTIANINOVA, G.P., inzh.

Study of screw pairs with moving spacers. Sbor. nauch. trud.

KGRI no.13:85-89 162. (MIRA 16:8)

(Boring machinery-Equipment and supplies)

BYCHKOV, V.P.; KHRISTIANOV, A.S.

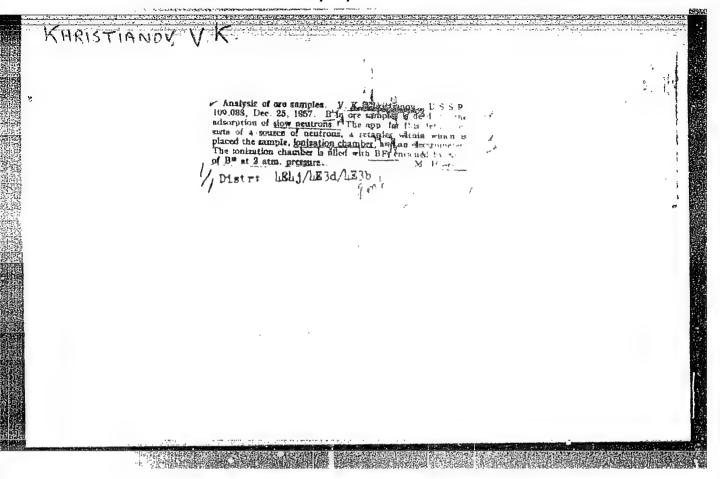
Thermogravimetric apparatus based on the TV-200 torsion balance. Zav. lab. 29 no.10:1267-1269 '63. (MIRA 16:12)

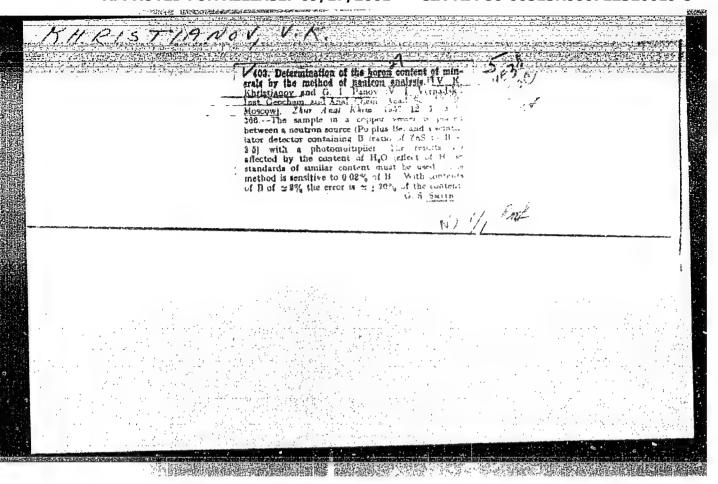
1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova.

KHRISTIANOV, A.S.; KOROVYATNIKOV, G.F.

Apparatus for the simultaneous fixing of differential-thermal and thermogravimetric measurements. Zav.lab. 30 no.4:495-496 '64. (MIRA 17:4)

1. Institut obshchey i neorganicheskoy khimii AN SSSR imeni
N.S.Kurnakova.





7(5) 3(0) AUTHORS:

Baranov, V.I., Khristianov, V.K.

"Projection of the property of

507/7-58-7-9/13

TITLE:

Borometric Profiling by the Neutron Method

(Borometricheskoye profilirovaniye neytronnym metodom)

PERIODICAL:

Geokhimiya, 1958, Nr 7, pp 680 - 681 (USSR)

ABSTRACT:

To state the boron content in soils the authors have developed the following method: a neutron source in the intensity of

1.10 7 n/sec is fixed under a water reflector, 24 cm next to a neutron end-detector. The appliance is moved with 4 - 5 km/h, the intensity is recorded visually with an indicating instrument. By its absorption of neutrons 0.01% B_2O_3 can be ascertained.

A depth up to 10 - 15 cm can be examined. A figure shows the boron distribution which has been fixed for a length of 1.5 km. There

are 1 figure and 3 Soviet references.

ASSOCIATION:

Institut geokhimii i analiticheskoy khimii im.V.I. Vernadskogo AN SSSR, Moskva (Institute for Geochemistry and Analytical

Chemistry imeni V.I. Vernadskiy, AS USSR, Moscow)

Card 1/2

5.5500 -5(2), 5(4) AUTHORS:

TITLE

67913 SOV/20-129-5-20/64

Baranov, V. I., Khristianov, V. K., Karasev, B. V.

Photoneutronic Method of Determining the Concentration of

Deuterium in Matural Water

Doklady Akademii nauk SSSE, 1959, Vol 129, Nr 5, PERIODICAL:

pp 1035 - 1037 (USSR)

The usual method of determining the deuterium concentration in water exhibits certain difficulties. They can be eliminated ABSTRACT:

by the here described method, when making use of the photocleavage of heavy water (Refs 2,3). The deuterium concentration can be easily and quickly determined in water within an accuracy of + 1 % by combining an adequately strong y-radia-tion source with an efficient method of neutron moderation and recording. The water sample is irradiated by a Y-quanta beam from Ha24. The neutron resulting due to the reaction D² (Y,n) H¹ is recorded by appropriate counters. The threshold of this reaction is 2.22 MeV, its cross section being

1.2.10-27 cm2 (Ref 4). Under standard conditions of measurement the number of emitted neutrons is proportional to deuterium concentration in water. By determining the counting rate of

Card 1/3

67913 80**V/**20-129-5-20/64

Photoneutronic Method of Determining the Concentration of Deuterium in Natural Water

both a standard sample of water and the sample to be investigated, the deuterium concentration in the latter can be easily calculated. The above method was experimentally checked by the authors. Na²⁴ served as v-radiation source. With its r-radiation energy (2.76 MeV), element Be only is capable of emitting neutrons under the action of hard r-quants. The (V,n)-reaction cross sections are approximately the same for Do and Be. Figure 1 shows the arrangement in which the measurements were made. It consists of a cylindrical lead block 1 which is bedded in a paraffin reflector 2. In the middle of the block there is a roughly spherical container with three tubes 4,5,6. 20 proportional counters 7 with B10_ concentrated boron fluoride are arranged in an annular spacing, of the lead. The radiation source 8 is situated in the center of container 3. Due to the short lifetime of Ma24 the authors were forced to content themselves with the accuracy of +2.5 + 1.5% determined by a single calculation. Up to a D20 concentration of 0.1784% a linear dependence of the counting rate on the deuterium content was determined (Fig 2, I). The error due to water contamination was determined. Such elements

Card 2/3

67913

Photoneutronic Method of Determining the Concentration of Deuterium in Matural Water

SOV/20-129-5-20/64

as B,Cd, Cl are apt to distort the determination result. Figure 2, II, shows the results of such an experiment. Thus Cl' in an amount of 0.24% causes the determination result of D₂O to appear lower by 1%. Apart from Na²4, Y86 might be used for the above purpose (T-105 days), but the required amount should be larger by dosens of times as compared to Na²4. Natural isotope ThC'' (Tl²O6) seems to be promising. Its ancestors RaTh (Th²C8) and MsTh₁(Ra²C8) have half-lives of 1.9 and 6.7 years respectively. The authors investigated the applicability of RaTh. The preparation generates neutrons itself. Chemical purification reduced this emission to about 1/5. Another possibility would be that of preparing metallic 99.9 ÷ 99.99% pure thorium enriched by radio thorium. By preliminary experiments the authors confirmed on principle the determinability of deuterium in natural water within a high accuracy. There are 2 figures and 6 references, 3 of which are Soviet.

PRESENTED:

July 17, 1959, by A. P. Vinogradov, Academician

SUBMITTED: Card 3/3 July 14, 1959

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S/007/60/000/006/001/010 B002/B067

21.7100 AUTHORS: Baranov, V. I., Khristianov, V. K., Karasev, B. V.,

Korobov, S. S.

TITLE:

Neutron-borometric Profiling 19

PERIODICAL: Geokhimiya, 1960, No. 6, pp. 490 - 497

TEXT: At the radiogeokhimicheskaya laboratoriya Instituta geokhimii i analiticheskoy khimii im. V. I. Vernadskogo AN SSSR (Radiogeochemical Laboratory of the Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy AS USSR) an instrument for neutron-borometric profiling was developed in the course of the last years. In principle it consists of a sleigh (Fig.1) carrying a 5 cm thick paraffin reflector layer (3), a moderator (7) with the neutron source (8) and detectors layer (3), a moderator (7) with the neutron source (8) and detectors with oriented action for neutrons and gamma quanta. The first one (9) with oriented action for neutrons and gamma quanta. The first one (9) is a proportionality counter in a boron-cadmium screen (11), the second (4) is a packet of CTC-6 (STS-6) Ralogen counters protected by a lead (4) is a packet of CTC-6 (STS-6) Ralogen counters protected by a lead coating (6). A small cadmium metal foil is placed between the counters. The detectors are arranged symmetrically to the radiation source at a

Card 1/3

85535

Neutron-borometric Profiling

s/007/60/000/006/001/010 B002/B067

distance of 38 cm. The apparatus is drawn by a car at a speed of 6-8 km/h; the car carries the Cf-14 (SG-14) recorder. With a polonium-beryllium source with 0.8-1 $10^7 n/\text{sec}$ 200 to 300 Imp/sec could be counted. The sensitivity was experimentally examined between 0.01 and 0.15% B_2O_3 . The range of detection reaches to about 15-20 cm. Chlorine is recorded as anomaly by the n,n probe, i.e., 0.6% NaCl correspond to the effect of 0.01% B_2O_3 . The limit of boron detection is 6% NaCl. Disturbances due to uneven ground are unimportant and may be easily corrected. The practical testing of the instrument proved its superiority over recordings by means of individual tests. There are 7 figures and 10 Soviet references.

ASSOCIATION:

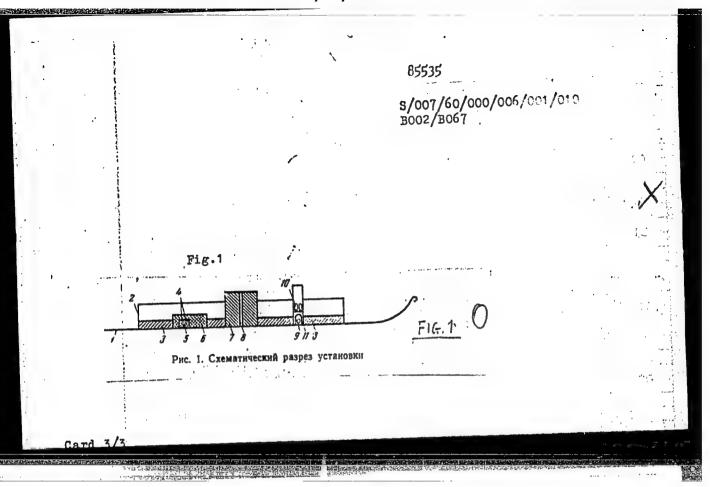
Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo AN SSSR, Moskva (Institute of Geochemistry and Analytical Chemistry imeni V. I.

Vernadskiy AS USSR, Moscow)

SUBMITTED:

April 7, 1960

Card 2/3



ACCESSION NR: APLO30336

8/001/9/61/000/003/031/9/0353

AUTHORS: Berenov, V. I.; Kiristianov, V. K.; Kerasev, B. V.; Penov, G. I.

TITLE: Heasuring boron by the neutron method in outcrops and mine workings

SOURCE: AN SSSR. Inv. Ser. mocia., no. 3, 1964, 349-353

TOPIC TAGS: boron, neutron sonde, neutron logging, SMD 5 counter

ABSTRACT: The authors describe a portable instrument used for boron detection and measurement by neutron bombardment and furnish results of field tests. To make the instrument portable it was necessary to reduce the weight of current devices and, consequently, to reduce the power of the neutron source. The neutron retarder and reflector were combined in a single block. Sondes near the inversion value were employed, and this required a minimal length of 40 cm. Shorter sondes were too insensitive. The first instrument constructed weighed 16.5 kg and was tested in the field in 1960. A later model, tested for the present study, weighs but 8 kg. The instrument has three parts: 1) a retarder-reflector of 5-liter capacity, immersed in water; 2) a casette with two SMMD-5 counters in a P-shaped boron-cadmium shield; and 3) a panel with amplifier, discriminator, transmitter,

Card 1/2

ACCESSION NR: AP4030336

actuator, generator, and rate counter. Sensitivity was found to be 0.01% B203 for a 10% decline in counter rate. Results on surface rocks and in mine workings show the instrument to be satisfactory for rapid determination of boron mineralisation without selection of rock samples. Results of profiling and of laboratory tests on the areas investigated are in good agreement. The instrument is suitable for exposed or slightly covered rocks. Either continuous or isolated readings may be made, and work may be carried out rapidly, permitting large areas to be covered quickly. Orig. art. has: 4 figures.

ASSOCIATION: Akademiya nauk SSSR Institute geokhimii i analiticheskoy khimii im. V. I. Vernadskogo (Academy of Sciences SSSR, Institute of Geochemistry and Analytical Chemistry)

SUBMITTED: 17Jul62

DATE ACQ: 29Apr64

ENCL: 00

SUB CODE: 13

NO REF 80V: 002

OTHER OOO

Card 2/2

BARAHOV, V.I.; BARSUKOV, V.L.; IVANOVA, V.F.; KHRISTIANOV, V.K.; SURKOV, Yu.A., kand. fiz.-matem. nauk, otv. red.

[Neutron methods of research and analysis of boron-containing raw materials] Neitronnye metody poiskov i analiza bornogo syr'ia. [by V.I.Baranov i dr.] Moskva, Izd-vo "Nauka," 1964. 139 p. (MIRA 18:1)

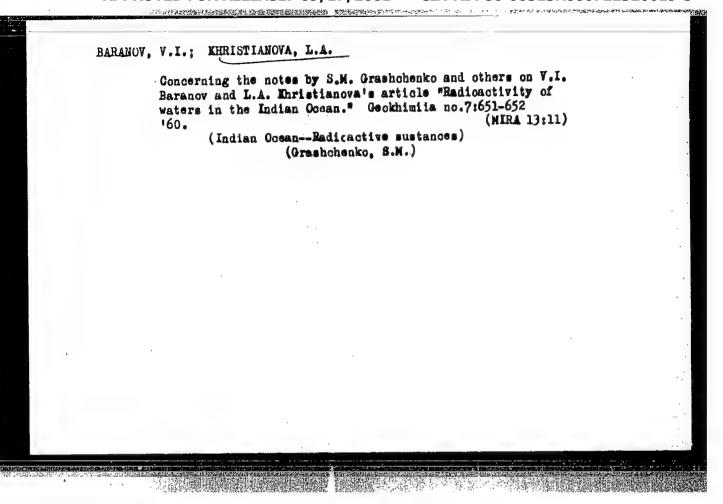
BORSFICHEVSKIT, Tu.A.; KHRISTIANOV, V.K. Isotopic composition of the crystallization sater of saline minerals. Geoldinia no.7884/-830 Jl. *65. (MIRA 18:11) 1. Submitted January 13, 1965.

* として、またしてはない。それできたがないないのはないではないではないではないできない。これでは、これではないないないできましています。これではいます。

KHRISTIANOVA, L. A.

Khristianova, L. A., Cand. Chem. Sci.--(Diss)

"Radiotechnical Analysis of Deep water Marine Depasits in Connection
with Determination of the Rate of Sediment Accumulation." Mos. /Publishing
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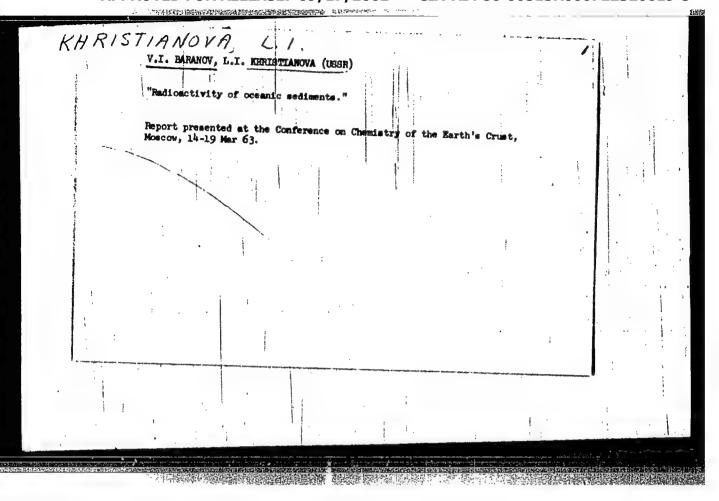
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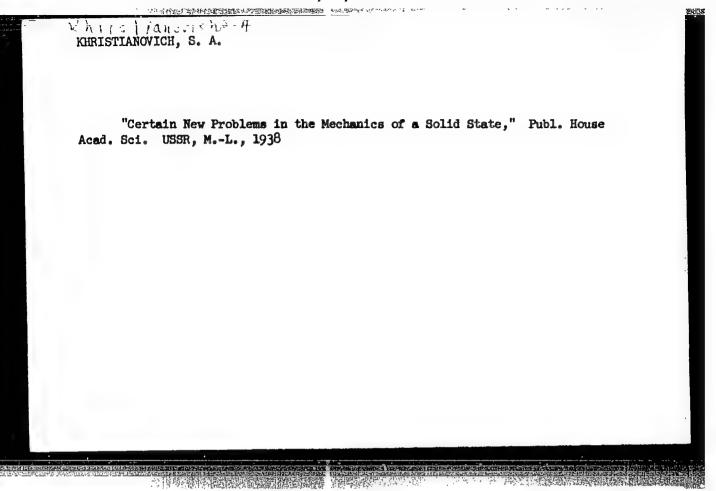
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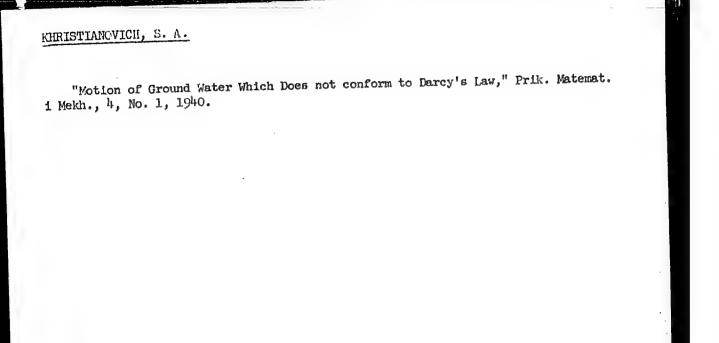
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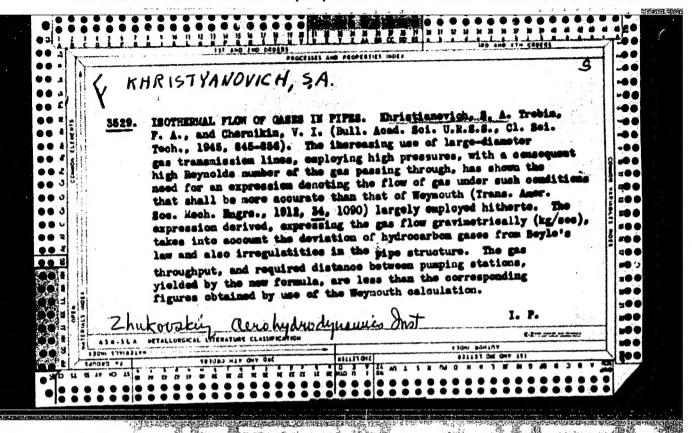
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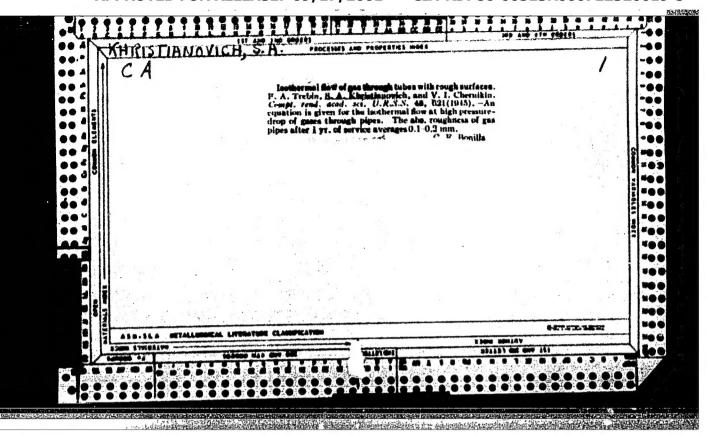
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